

**ABSTRACT**

A method for preparing a radiation image conversion panel, which comprises the steps of:

- (a) applying onto a support a stimuable phosphor coating composition comprising a stimuable phosphor and a polymer resin to form a stimuable phosphor layer;
- (b) drying the stimuable phosphor layer; and
- (c) subjecting the stimuable phosphor layer on the support to a compression treatment employing a calender roller which comes into contact with the stimuable phosphor layer to form the radiation image conversion panel, wherein the calender roller comprises a resin and the surface of the calender roller has a Shore D hardness of D80 to D97 °.

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